

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
29 December 2004 (29.12.2004)

PCT

(10) International Publication Number
WO 2004/113920 A1

(51) International Patent Classification⁷: **G01N 33/569**,
33/68, A61K 31/185, A61P 33/06

(21) International Application Number:
PCT/GB2004/002604

(22) International Filing Date: 18 June 2004 (18.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0314114.0 18 June 2003 (18.06.2003) GB

(71) Applicants (for all designated States except US): **MEDICAL RESEARCH COUNCIL** [GB/GB]; 20 Park Crescent, London W1B 1AL (GB). **KING'S COLLEGE LONDON** [GB/GB]; Strand, London WC2R 2LS (GB).

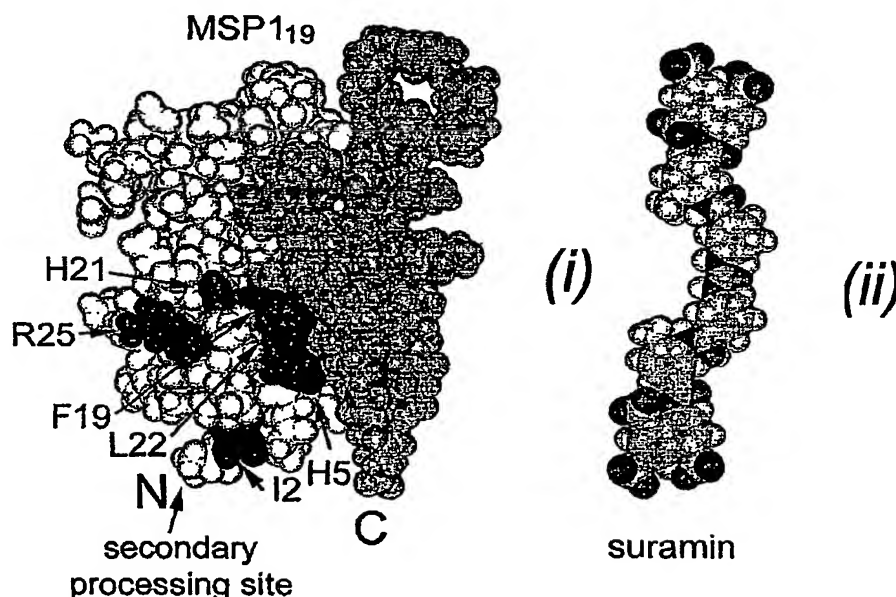
(72) Inventors; and

(75) Inventors/Applicants (for US only): **DLUZEWSKI, Anton, Richard** [GB/GB]; Peter Gorer Department of Immunobiology, Guy's Hospital, New Guy's House, London SE1 9RT (GB). **HOLDER, Anthony, Arthur**

[GB/GB]; MRC National Institute for Medical Research, The Ridgeway, Mill Hill, London NW7 1AA (GB). **BIRD-SALL, Berry, Martin** [US/GB]; MRC National Institute for Medical Research, The Ridgeway, Mill Hill, London NW7 1AA (GB). **BABON, Jeff, James** [AU/GB]; MRC National Institute for Medical Research, The Ridgeway, Mill Hill, London NW7 1AA (GB). **MARTIN, Stephen, Richard** [GB/GB]; MRC National Institute for Medical Research, The Ridgeway, Mill Hill, London NW7 1AA (GB). **MORGAN, William, Dale** [US/GB]; MRC National Institute for Medical Research, The Ridgeway, Mill Hill, London NW7 1AA (GB). **FEENEY, James** [GB/GB]; MRC National Institute for Medical Research, The Ridgeway, Mill Hill, London NW7 1AA (GB). **BLACKMAN, Michael, John** [GB/GB]; MRC National Institute for Medical Research, The Ridgeway, Mill Hill, London NW7 1AA (GB). **FLECK, Suzanne, Lesley** [GB/GB]; Medical Research Council Technology, 1-3 Burtonhole Lane, Mill Hill, London NW7 1AD (GB). **SAXTY, Barbara** [GB/GB]; Medical Research Council Technology, 1-3 Burtonhole Lane, Mill Hill, London NW7 1AD (GB).

[Continued on next page]

(54) Title: SCREENING METHOD FOR SUBSTANCES BINDING TO MEROZOITE SURFACE PROTEIN-1/42



(57) Abstract: Disclosed is a method of screening a test substance for possession of binding activity for possession of binding activity for MSP₄₂ or a fragment thereof, the method comprising the steps of: combining or contacting, in any order, (i) a molecule comprising MSP₄₂ or a fragment thereof, (ii) the test substance, and (iii) a comparison substance known to have binding activity for MSP₄₂ or a fragment thereof; and determining the presence and/or amount, if any, of comparison substance and/or test substance bound to the MSP₄₂ or fragment thereof.



(74) **Agent:** LIPSCOMBE, Martin, John; Keith W Nash & Co, 90-92 Regent Street, Cambridge CB2 1DP (GB).

(81) **Designated States** (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH,

GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.